

Amendments to the Specification

At specification page 1, before the paragraph beginning with "[t]he invention relates to," insert the following headings:

BACKGROUND OF THE INVENTION

1. Field of Invention

At specification page 1, before the paragraph beginning with "[d]ialysis apparatus," insert the following heading:

2. Description of the Prior Art

At specification page 2, before the paragraph beginning with "[t]he object is solved," insert the following heading:

SUMMARY OF THE INVENTION

At specification page 2, replace the paragraph beginning with "[t]he object is solved" with the following replacement paragraph:

The object is solved in a system with a predilution port in a method ~~having the features of claim 1~~ in which a substitute fluid displaces blood in a volume-controlled manner from a first line and from a blood treatment element and a second line. The object is solved with an apparatus having a postdilution port by a method ~~having the method steps in accordance with claim 2~~ in which the substitute fluid displaces blood in a volume-controlled manner

from the blood treatment element and the first line and from the second line.

At specification page 4, replace the paragraph beginning with "[i]n accordance with a preferred aspect" with the following replacement paragraph:

In accordance with a preferred aspect of the invention ~~in accordance with dependent claim 3~~, a membrane pump with highly precise dosing is used as the substitute pump. In cooperation with the two optical sensors, this permits a very effective return of blood at a precise point since the residual volume in the lines from the sensors to the line outlet is known and this known volume can be displaced at a precise point from the line by a corresponding control of the membrane pump with highly precise dosing.

At specification page 4, replace the paragraph beginning with "[a]dvantageous further developments" with the following replacement paragraph:

Advantageous further developments of the method result from the ~~further dependent claims~~ other embodiments of the invention described herein.

At specification page 4, replace the paragraph beginning with "[t]he invention finally relates to" with the following replacement paragraph:

The invention finally relates to an apparatus ~~in accordance with claim 9~~ that includes a blood treatment element, a blood pump, a substitute pump, a first line as an arterial blood line, a second line as a venous blood line, valves, and a control apparatus. Advantageous aspects of this apparatus result from the ~~subordinate claims dependent thereon~~ various embodiments thereof that are described herein.

At specification page 4, before the paragraph beginning with "[f]urther details, features and advantages," insert the following heading:

BRIEF DESCRIPTION OF THE DRAWINGS

At specification page 4, before the paragraph beginning with "[t]he dialysis apparatus 10," insert the following heading and paragraph:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Further scope of applicability of the present invention will become apparent from the detailed description given hereinafter. However, it should be understood that the detailed description and specific examples, while indicating preferred

embodiments of the invention, are given by way of illustration only, since various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description.

At specification page 6, after the last line, insert the following paragraph:

The invention being thus described, it will be apparent that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the invention, and all such modifications as would be recognized by one skilled in the art are intended to be included within the scope of the following claims.

At specification page 7 (i.e., the first claims page), replace the heading with the following replacement heading:

~~Claims~~ WHAT IS CLAIMED IS: